The listing of claims will replace all prior versions and listings of claims in the

application:

Listing of Claims:

1. (Currently Amended) A balloon catheter comprising:

a catheter shaft having a distal end, an inflatable balloon disposed on the distal end, a

proximal end coupled to a connecting piece, a guiding wire lumen extending between the

proximal and distal ends, and an inflation lumen extending from the connecting piece to the

inflatable balloon,

wherein the guiding wire lumen comprises a pipe having coupled proximal and distal

portions disposed substantially concentrically within the catheter shaft,

wherein the proximal and distal portions are each made of a solid material, the material

of the proximal portion being more rigid than the material of the distal portion,

wherein a transitional portion between the proximal and distal portions of the pipe is

provided with kink protection at least partially overlapping the proximal and distal portion of the

pipe, and

wherein the inflation lumen is defined by an annulus between an exterior of the pipe and

an interior surface of the catheter shaft.

2.-3. (Canceled)

4. (Previously Presented) The balloon catheter according to claim 1, wherein the

proximal portion comprises a metallic material and the distal portion comprises a plastic

material.

5. (Previously Presented) The balloon catheter according to claim 1, wherein the

transitional portion comprises the abutting ends of the proximal and distal portions.

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6. (Previously Presented) The balloon catheter according to claim 1, wherein the kink

protection comprises a sleeve.

7. (Previously Presented) The balloon catheter according to claim 1, wherein the

kink protection comprises a metal spring.

8. (Previously Presented) The balloon catheter shaft according to claim 7, wherein

the metal spring is arranged in the inflation lumen.

9.-12. (Canceled)

13. (Previously Presented) The balloon catheter according to claim 4, wherein the

proximal portion is provided with a lubricity-enhancing coating.

14.-20. (Canceled)

21. (Currently Amended) A balloon catheter comprising:

a catheter shaft having a distal end including an inflatable balloon and a proximal end

coupled to a connecting piece, the catheter shaft comprising a pipe having proximal and distal

portions, the proximal and distal portions of the pipe being coupled together by a sleeve that at

least partially overlaps the proximal and distal portions of the pipe, separate first and second

boreholes extending longitudinally within at least a portion of the catheter shaft,

wherein the first and second boreholes extend from the proximal end to the distal end, the

first longitudinal borehole defining a guiding wire lumen and the second longitudinal borehole

defining an inflation lumen that provides fluid communication between the connecting piece to

and the inflatable balloon, the proximal portion comprising a material having a greater rigidity

than the distal portion.

22. (Previously Presented) The balloon catheter of claim 21, wherein the proximal

portion comprises a metallic material and the distal portion comprises a plastic material.

23. (Previously Presented) The balloon catheter according to claim 21, wherein at

least the first borehole in the proximal portion includes a lubricity-enhancing coating.

24. (Currently Amended) A balloon catheter comprising:

a catheter shaft having a distal end including an inflatable balloon and a proximal end

coupled to a connecting piece, the catheter shaft comprising a pipe having proximal and distal

portions, the proximal portion of the pipe being coupled to the distal portion of the pipe, a

transition comprising the coupling ends of the proximal and distal portions, and a kink protection

being disposed about the transition and at least partially overlapping the proximal and distal

portions of the pipe,

wherein separate first and second boreholes extend longitudinally within at least a

portion of the catheter shaft, and

wherein the first borehole defines a guiding wire lumen and the second borehole defines

an inflation lumen for connecting the connecting piece to the inflatable balloon.

25. (Previously Presented) The balloon catheter of claim 24, wherein the pipe

comprises a metallic material.

26. (Previously Presented) The balloon catheter according to claim 24, wherein at least

the first longitudinal borehole includes a lubricity-enhancing coating.

27. (Previously Presented) The balloon catheter according to claim 13, wherein the

lubricity-enhancing coating comprises a plastics tube applied to the inner wall of the pipe.

28. (Previously Presented) The balloon catheter according to claim 27, wherein the outer

surface of the plastics tube is modified by plasma treatment or corona treatment for increasing

adherence at the inner wall of the pipe.

29. (Previously Presented) The balloon catheter according to claim 27, wherein the

plastics tube is provided with an outer adhesive layer.

30. (Previously Presented) The balloon catheter according to claim 27, wherein the

plastics tube extends beyond the proximal portion and into at least a portion of the distal portion.

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31. (Previously Presented) The balloon catheter according to claim 1, further comprising

a nylon tube coating within the transitional portion, the nylon tube coating extending at least

partially within the proximal and distal portions.

32. (Previously Presented) The balloon catheter according to claim 23, wherein the

lubricity-enhancing coating comprises a plastics tube applied to the inner wall of the pipe.

33. (Previously Presented) The balloon catheter according to claim 24, wherein the kink

protection comprises a metal spring.